MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES
BUEHLER PARK ROLLA MISSOURI 65401 314-364-1752

WALLACE B. HOWE STATE GEOLOGIST AND DIRECTOR

LARRY D. FELLOWS ASSISTANT STATE GEOLOGIST

July 10, 1974

Site: Syntex-Verona
ID # MOD027152154
Weak: 1.6
Other:
7-10-74

Mr. James Burris
Missouri Clean Water Commission
1155 East Cherokee
Springfield, Missouri 65804

SUBJECT: Hoffman-Taff, Inc. Lagoon, Verona, Missouri

Dear Mr. Burris:

On July 1, 1974, a surficial inspection was made on three locations that Hoffman-Taff is considering for a lagoon site at their Verona plant. The enclosed map shows the layout.

Plans call for an above ground lagoon fabricated out of a heavy duty type plastic or rubberized plastic sheeting attached to a steel frame. An excavation of 2 feet will be necessary in order to obtain the capacity desired for the lagoon. This is to be a storage type lagoon used in the winter when irrigation of lagoon fluid is not feasible.

Site #1 is located on the east edge of the Spring River floodplain. This appears to be a suitable site with the only possible hindrance being when Spring River gets out of its banks. According to Hoffman-Taff officials the land area for the proposed lagoon has not been under water in the 15 years the plant has been in existence. I suggested to Hoffman-Taff that they check with natives at Verona to get some idea of how high water has been before the plant was constructed. Site #3 could also be considered if Site #1 is rejected.

Site #2 is located in a depression south of Site #1. This site is not as geologically favorable as Site #1 or #3, because of the lower ground elevation. The site is on the floodplain of Spring River and because of the lower elevation of the ground surface it would be more subject to flooding than other sites. Also, excavations to enlarge the holding capacity of the lagoon would place the bottom of the lagoon closer to the water table.

A triaxle soil test was suggested in order to determine soil strength under saturated conditions. Saturated soil conditions could occur when flood water stays out of the banks for several days. This test will give some idea of the bearing capacity of the soil beneath the proposed waste water lagoon.

Yours truly,

John W. Whitfield, Geologist
Applied Engineering & Urban Geology
Office of State Geologist

JWW:bab

cc: Mr. Charles E. Wallace
Chief Engineer
Hoffman, Taff, Inc.

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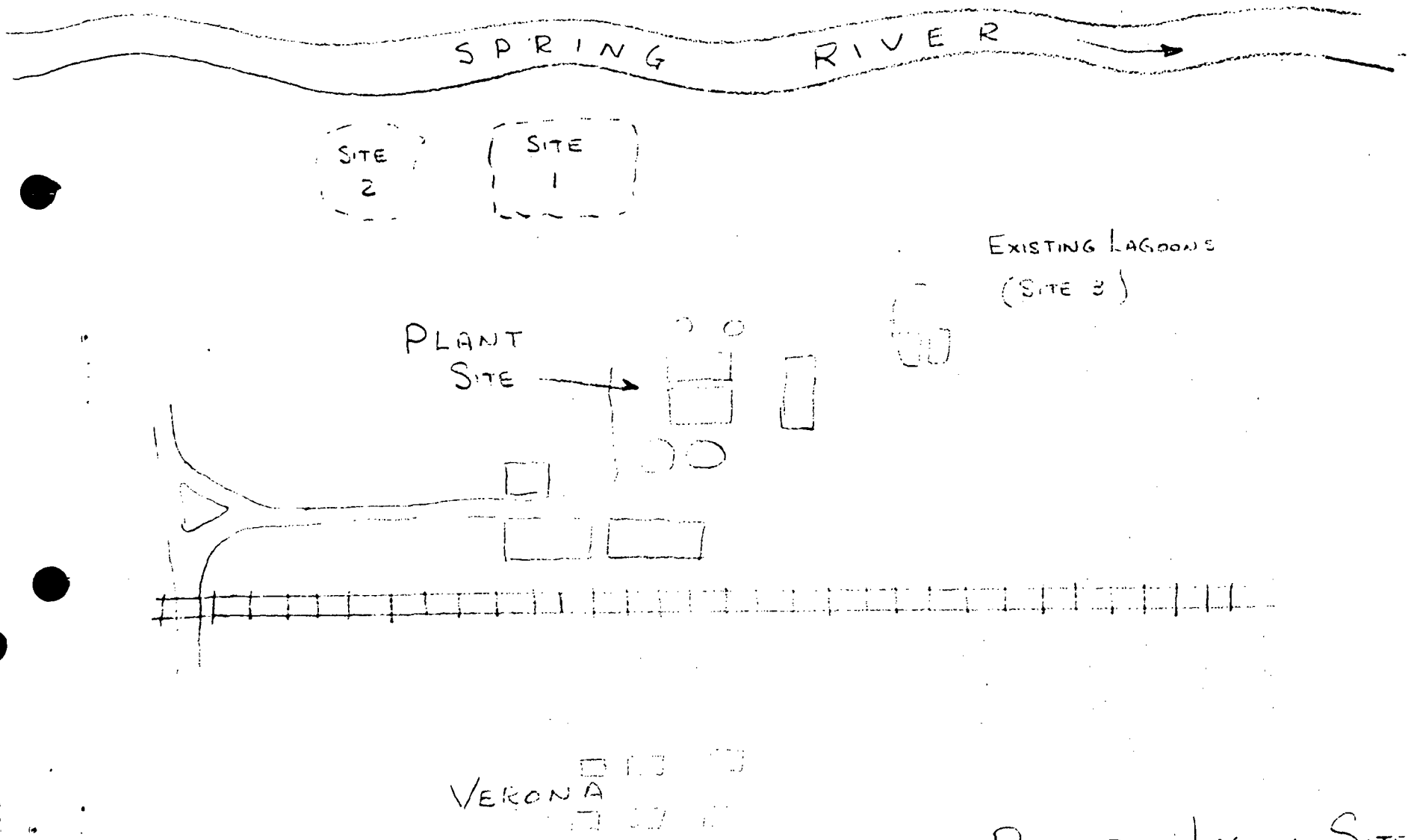

POSSIABLE LAGOON SITES
PROPOSED BY
HOFFMAN-TAFF INC.

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